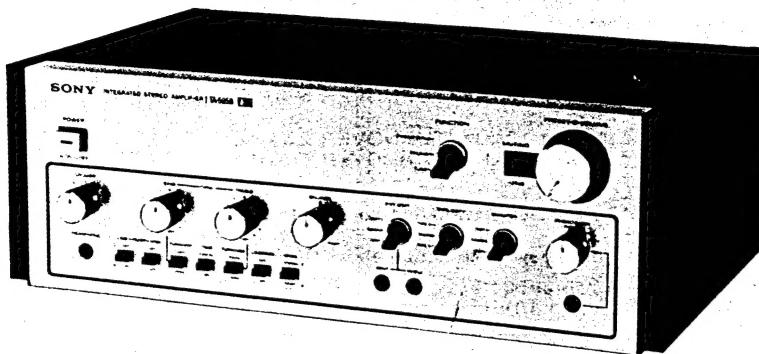


# TA-5650

DEGA V48/0 USA Model  
Canada Model  
UK Model  
AEP Model



Discard TA-5650 service manual previously issued for UK and AEP Models.  
This service manual contains former information.

## INTEGRATED STEREO AMPLIFIER

### SPECIFICATIONS

#### GENERAL

**Power Requirements:** 120 V ac, 60 Hz (USA and Canada Model)  
110, 127, 220 or 240 V ac adjustable,  
50/60 Hz (UK and AEP Model)

**Power Consumption:** 160 W (USA Model)  
320 VA (Canada Model)  
440 W (UK and AEP Model)

**Dimensions:** Approx. 460(w) x 168(h) x 323(d) mm  
18 $\frac{1}{8}$ (w) x 6 $\frac{5}{8}$ (h) x 12 $\frac{3}{4}$ (d)  
inches  
Including projecting parts  
and controls

**Weight:** Approx. 13.4 kg, 29 lb 9 oz (net)  
Approx. 16 kg, 35 lb 4 oz (in shipping  
carton)

#### POWER AMPLIFIER SECTION

**Continuous RMS Power Output:** At 1 kHz  
(less than 0.1 % THD,  
both channels driven simultaneously)  
60 + 60 W (8  $\Omega$ )  
50 + 50 W (4  $\Omega$ )  
At 20 Hz – 20 kHz  
50 + 50 W (8  $\Omega$ )  
according to DIN 45500  
55 + 55 W (8  $\Omega$ )

**Dynamic Power Output:** (IHF constant power supply method)  
160 W (8  $\Omega$ )  
140 W (4  $\Omega$ )

**Power Bandwidth (IHF):** 5 – 40,000 Hz

#### Harmonic Distortion:

Less than 0.1 % at rated output  
Less than 0.08 % at 1 W output

#### IM Distortion: (60 Hz : 7 kHz = 4 : 1)

Less than 0.1 % at rated output  
Less than 0.08 % at 1 W output

#### Frequency Response (at 1 W output):

2 Hz – 100 kHz  $\pm$  0 dB

#### S/N Ratio:

Greater than 110 dB, short-circuited  
input

#### Residual Noise:

Less than 0.02  $\mu$ W (8  $\Omega$ )

#### Damping Factor:

50 (8  $\Omega$ , at 1 kHz)

#### Inputs:

POWER INPUT  
Sensitivity 1 V RMS (for rated  
output), impedance 50 k $\Omega$

**Outputs:** SPEAKER terminals A, B  
Accept speakers of 4  $\Omega$  or more  
HEADPHONES jack  
Accepts low-and high-impedance  
stereo headphones

— continued on page 2 —

0 dB = 0.775 V

**SONY®**  
**SERVICE MANUAL**

**PREAMPLIFIER SECTION**

**Harmonic Distortion:** Less than 0.05 % at rated output

**IM Distortion:** Less than 0.05 % at rated output  
(60 Hz : 7 kHz = 4 : 1)

**Frequency Response:** PHONO 1, 2 RIAA equalization  $\pm 0.5$  dB

TUNER	$10\text{Hz} -$ $100\text{kHz} +0\text{dB}$ <small>(TONE: CANCEL)</small>
AUX 1, 2, 3	
TAPE 1, 2	
REC/PB (input)	

EXT ADPT 1, 2 (input)

**Tone Controls:**  
BASS:  
 $\pm 10$  dB at 50 Hz (TURNOVER 250 Hz)  
 $\pm 10$  dB at 100 Hz (TURNOVER 500 Hz)

TREBLE:  
 $\pm 10$  dB at 10 kHz (TURNOVER 2.5 kHz)  
 $\pm 10$  dB at 20 kHz (TURNOVER 5 kHz)

**Filters:**  
LOW:  
12 dB/octave attenuation below 30 Hz

HIGH:  
12 dB/octave attenuation above 9 kHz

**Loudness switch:**  
(att. 30 dB)  
+ 10 dB at 50 Hz  
+ 3 dB at 10 kHz

**Inputs:**

	Sensitivity	Impedance	Maximum input capability*	S/N (weighting network)
PHONO 1, 2	2.5 mV	50 k ohms	300 mV	greater than 70 dB (B)
AUX 1, 2, 3 TAPE 1, 2 REC/PB (input) EXT ADPT 1, 2 (input)	150mV	250k ohms	—	greater than 90 dB (A)

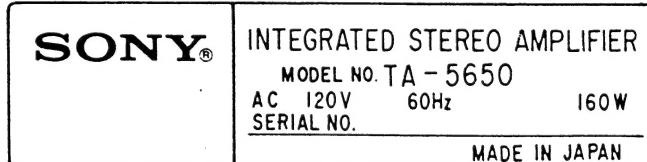
\* The maximum input capability is measured at a 0.05 % harmonic distortion.

**Outputs:**

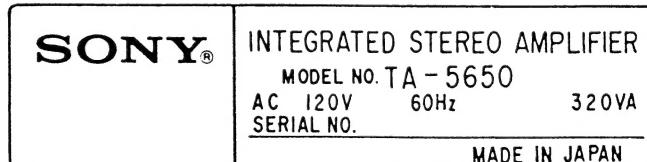
	Output voltage	Impedance
REC OUT 1, 2	150 mV	4.7 k ohms
PRE OUTPUT	1 V	1 k ohm
REC/PB	17 mV	82 k ohms
EXT ADPT 1, 2	150 mV	4.7 k ohms

**Specification Labels:**

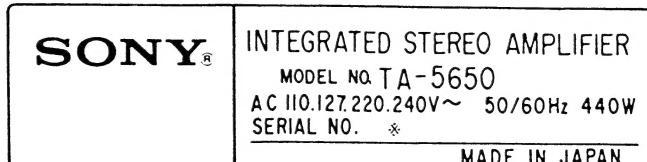
USA Model



Canada Model

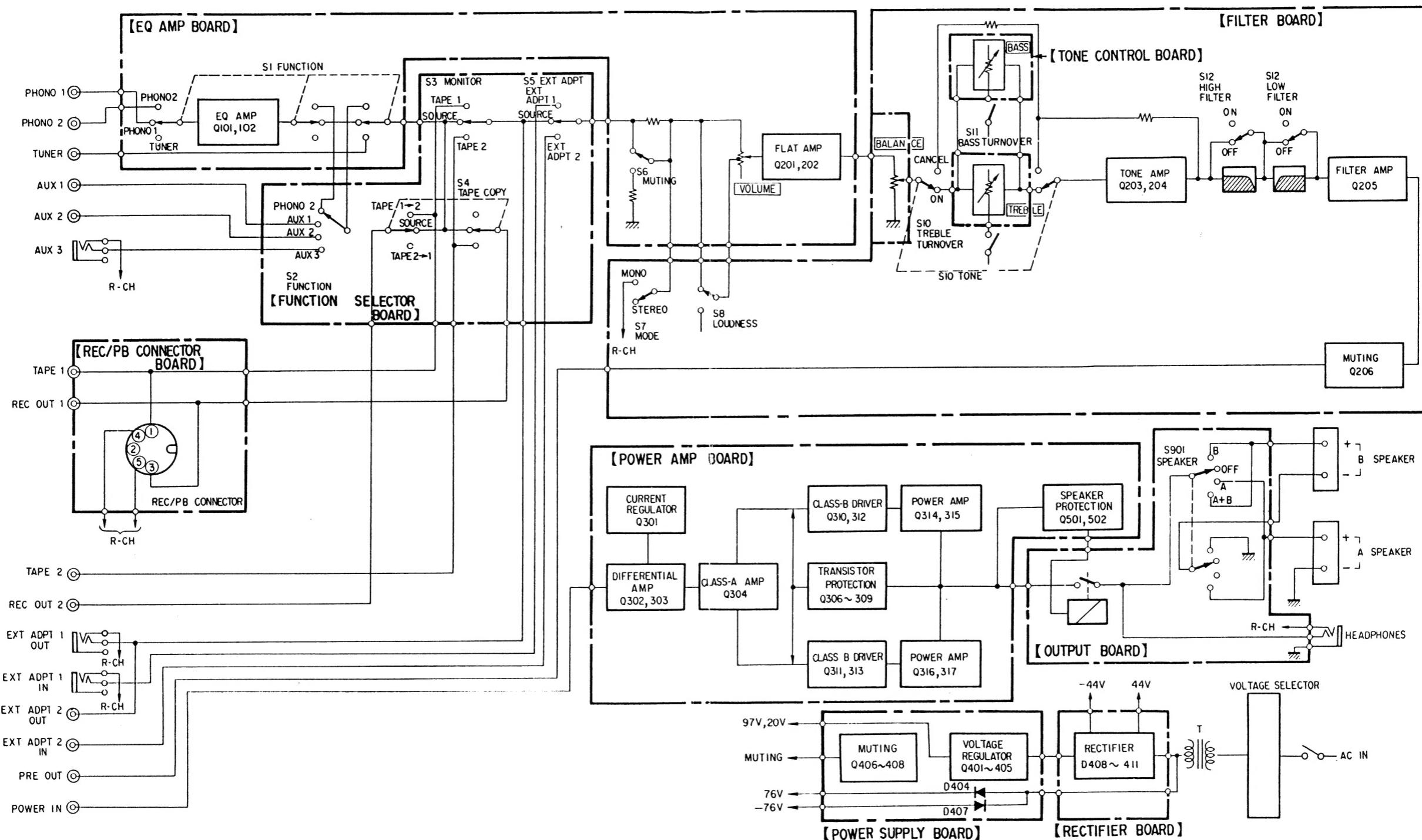


UK and AEP Models



Note: \* UK Model: Serial No. 600,001 and later  
AEP Model: Serial No. 500,001 and later

**SECTION 1**  
**BLOCK DIAGRAM**



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## SECTION 2 ADJUSTMENT

**Note:** Turn the power switch on and allow about five minutes for warm-up the set.

### 2-1. 20 V POWER VOLTAGE ADJUSTMENT

With no input signal, adjust RT401 so that the emitter voltage of Q403 becomes 20 V.

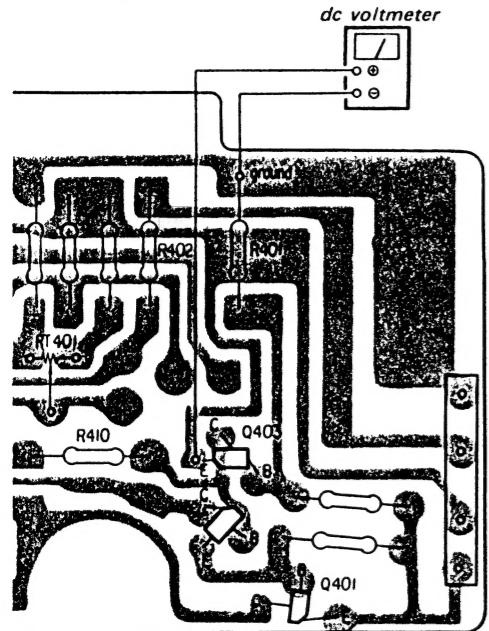


Fig. 2-1. 20 V power voltage adjustment

### 2-2. 97V POWER VOLTAGE CONFIRMATION

After 20 V power voltage adjustment, confirm that the emitter voltage of Q401 shows  $97 V \pm 3 V$ .

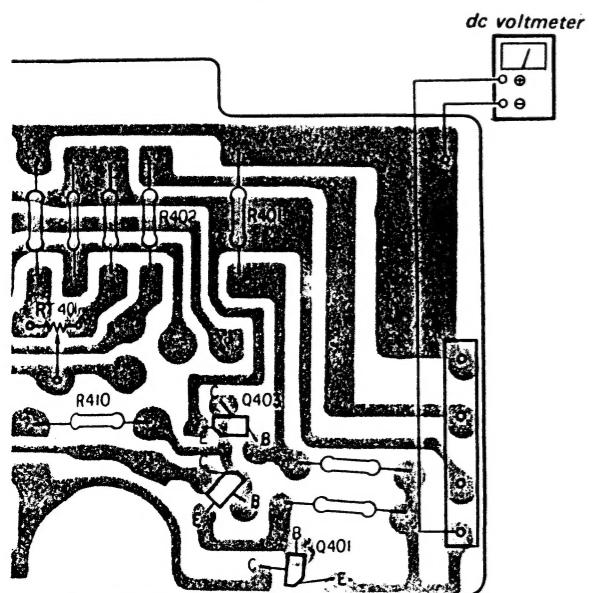


Fig. 2-2. 97 V power voltage confirmation

### 2-3. CONFIRMATION OF DC BALANCE VOLTAGE

1. Set the SPEAKER switch to "A" position.
2. Connect the dc voltmeter across the SPEAKER OUT "A".
3. Confirm that the dc voltage at SPEAKER OUT "A" shows  $0V \pm 50 mV$ .

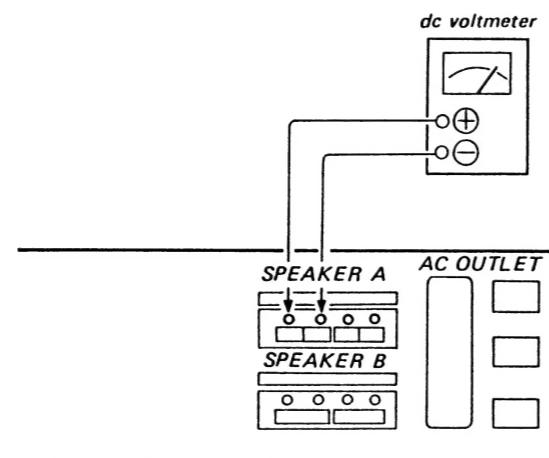


Fig. 2-3. Confirmation of dc balance voltage

### 2-4. DC BIAS ADJUSTMENT

Adjust RT301 and RT351 for 90 mV reading on the meter with no input signal.

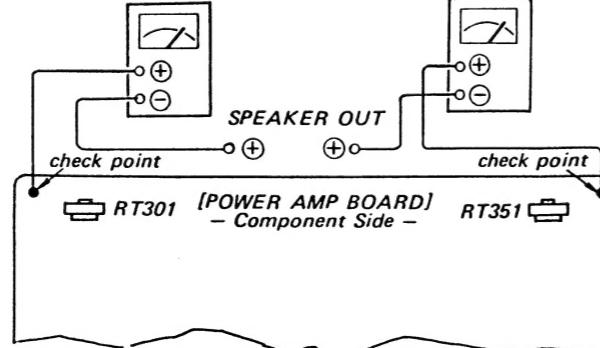


Fig. 2-4. DC bias adjustment

## 2-5. CHASSIS LAYOUT

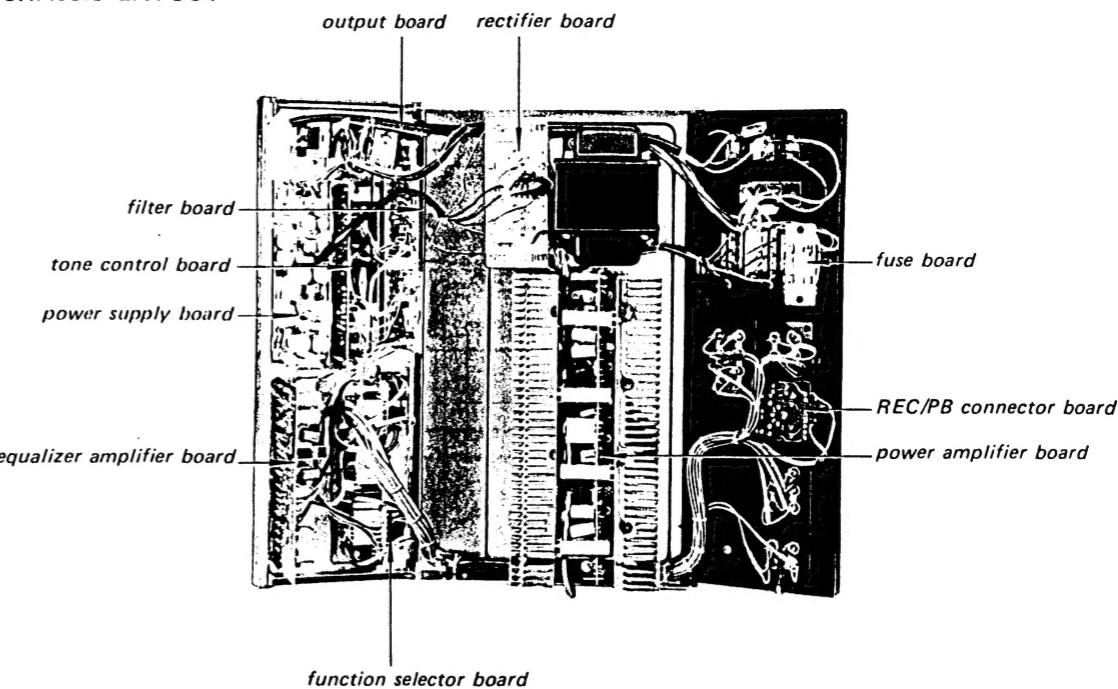
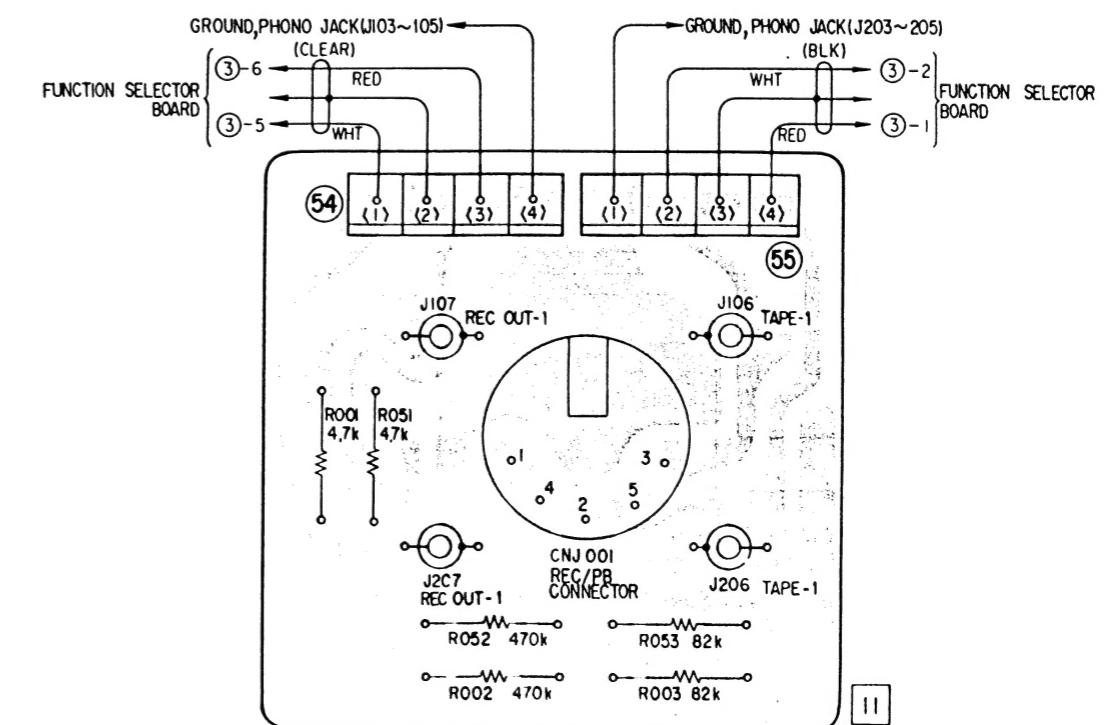


Fig. 2-5. Chassis layout

## SECTION 3 MOUNTING AND SCHEMATIC DIAGRAMS

### 3-1. MOUNTING DIAGRAM – REC/PB CONNECTOR BOARD –

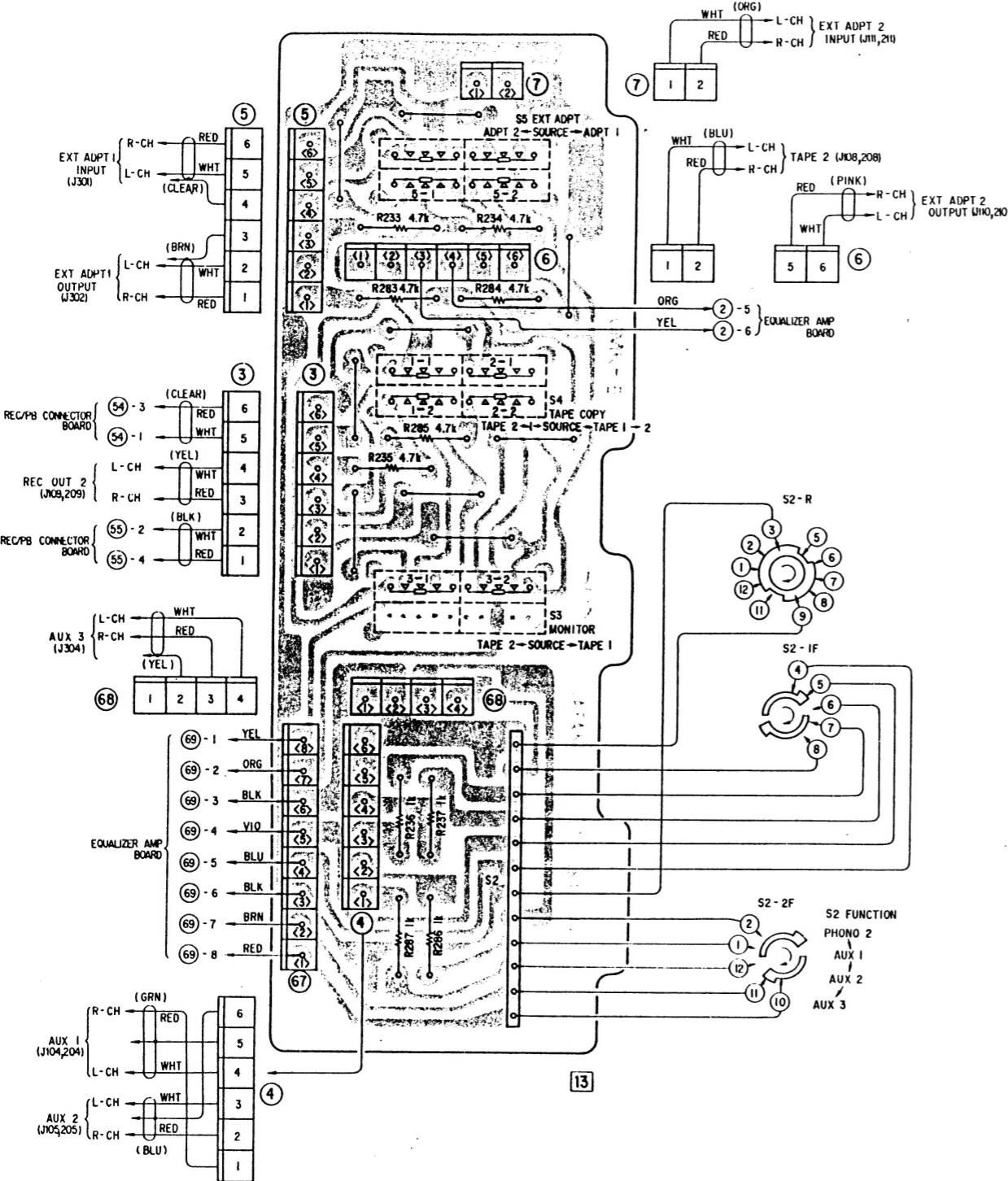
– Conductor Side –



# TA-5650 TA-5650

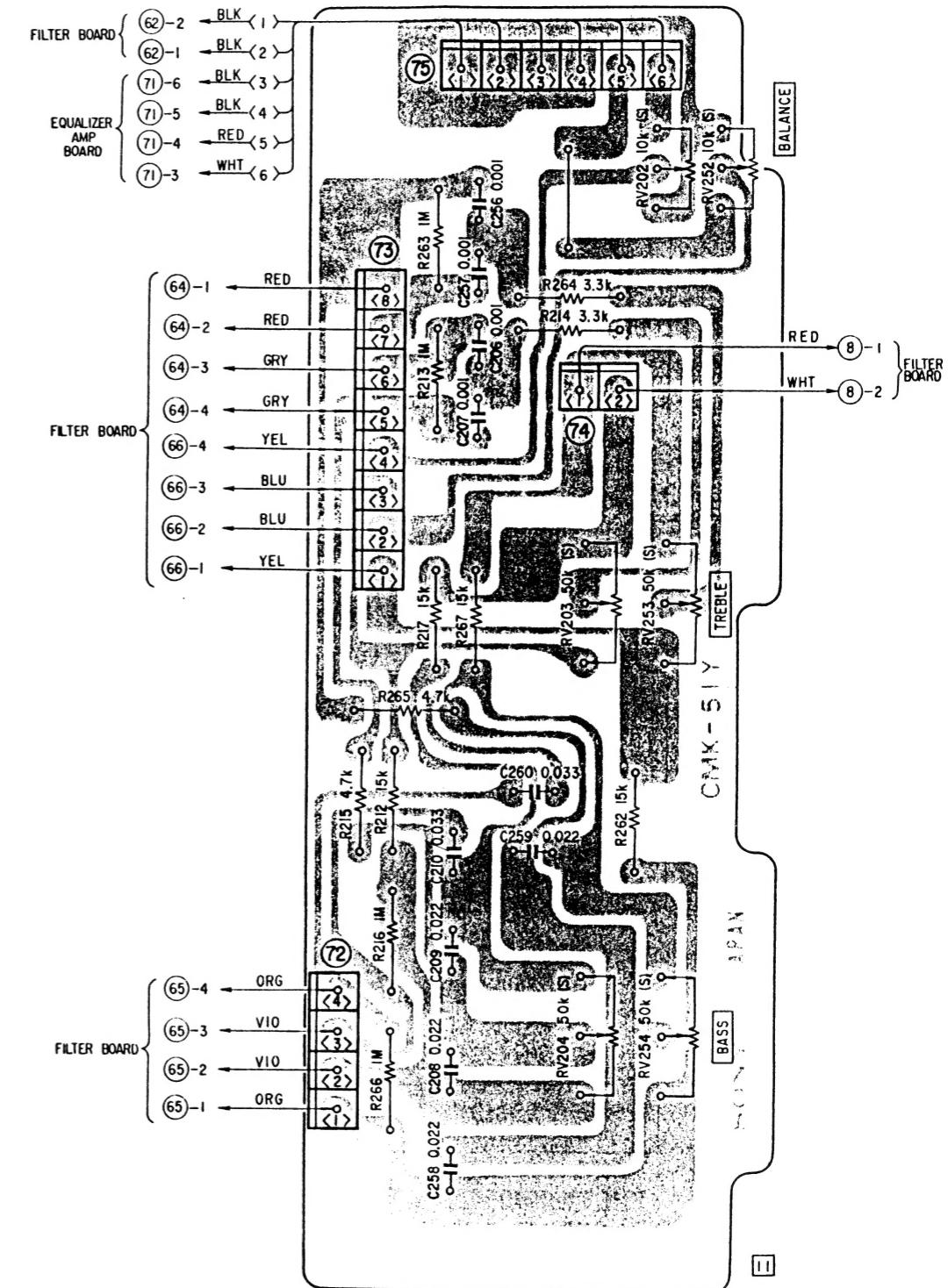
## 3-2. MOUNTING DIAGRAM – FUNCTION SELECTOR BOARD –

– Conductor Side –



## 3-3. MOUNTING DIAGRAM – TONE CONTROL BOARD –

– Conductor Side –

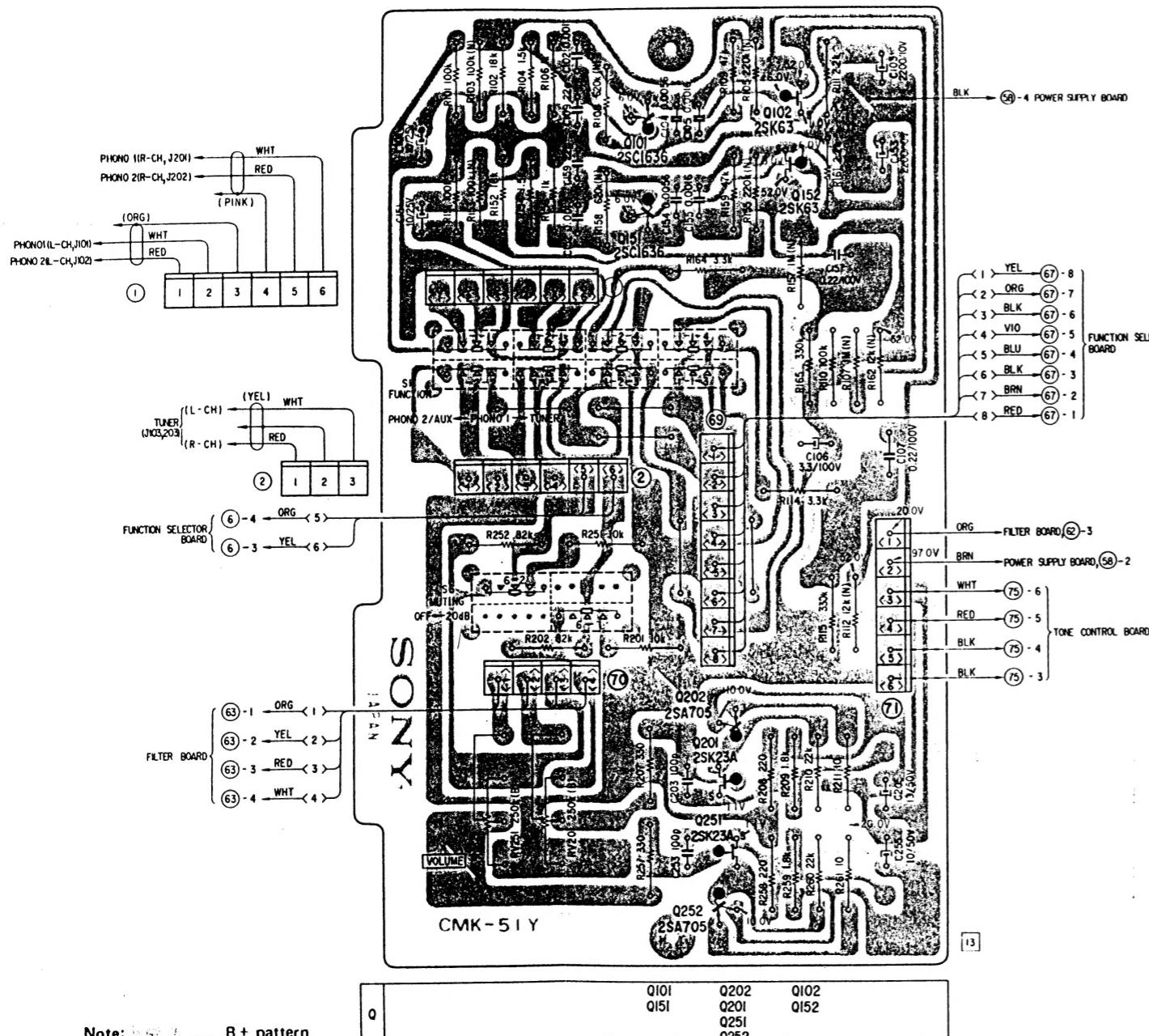


# TA-5650 TA-5650

## 3-4. MOUNTING DIAGRAM – EQUALIZER AMPLIFIER BOARD –

– Conductor Side –

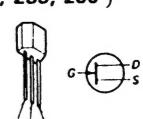
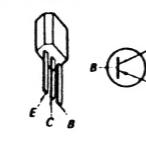
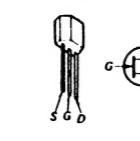
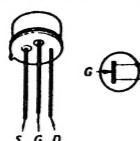
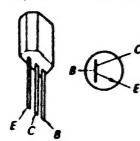
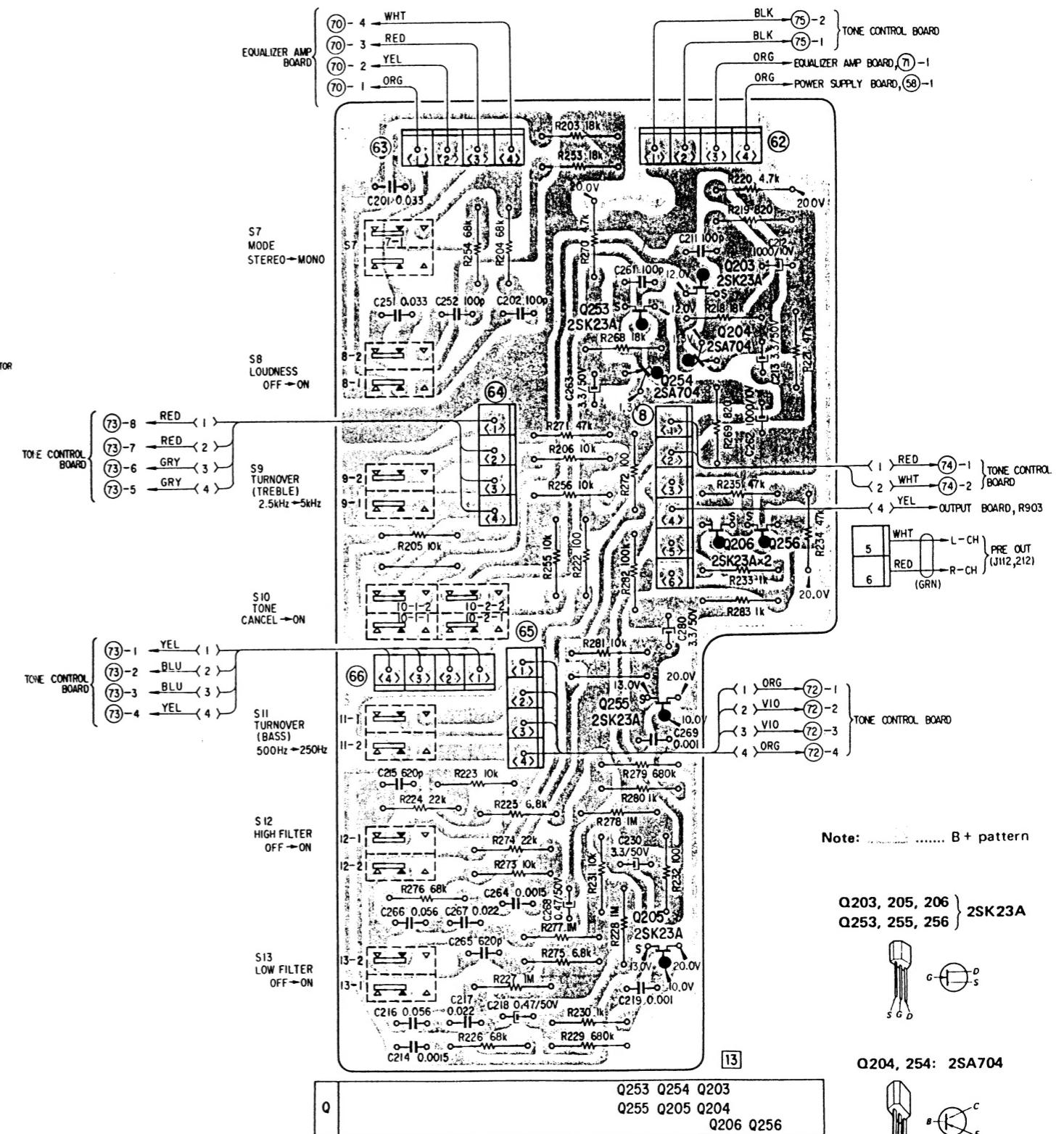
UK Model: Up to serial No. 600,350  
AEP Model: Up to serial No. 501,900



## 3-5. MOUNTING DIAGRAM – FILTER BOARD –

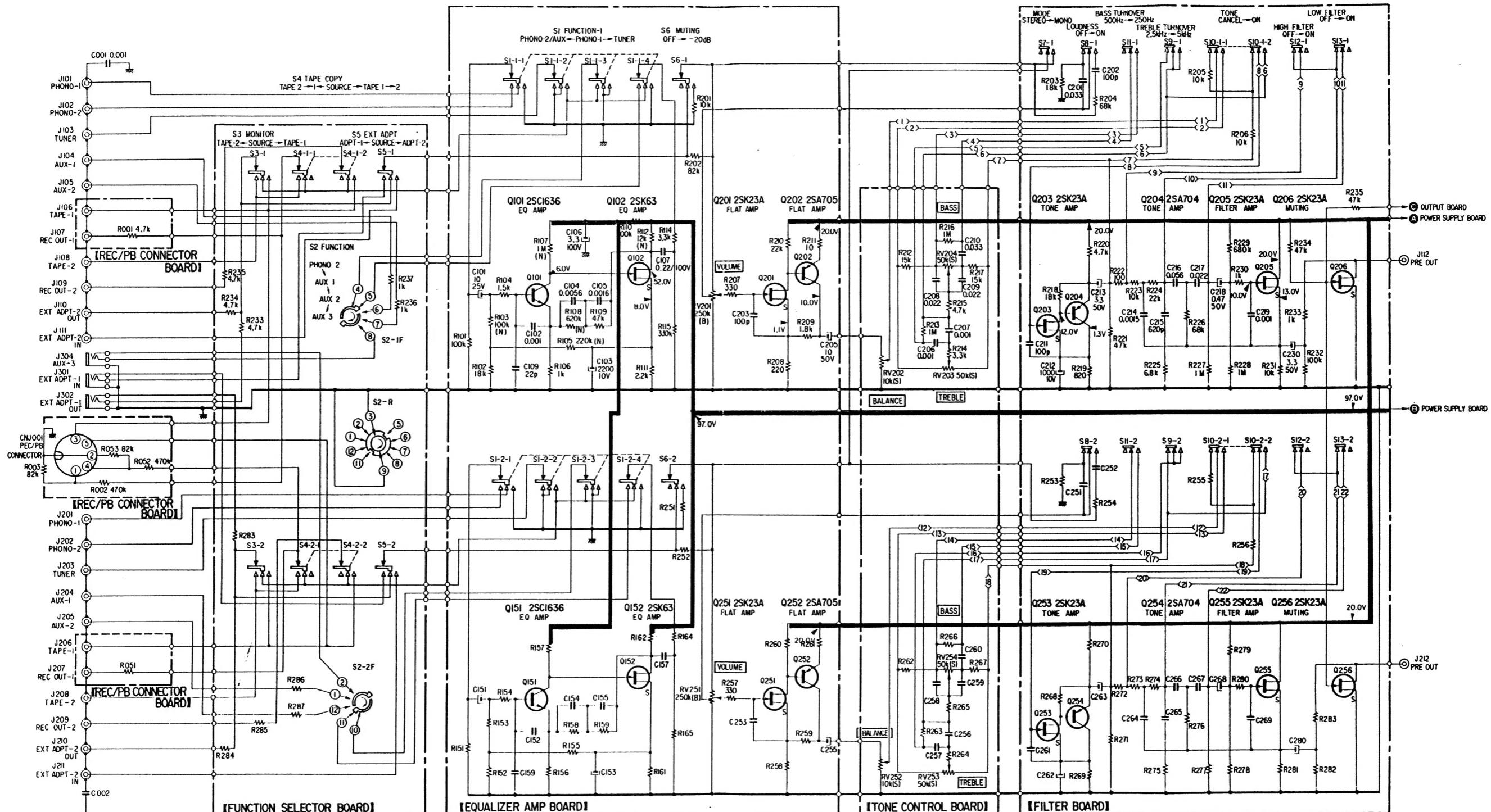
– Conductor Side –

UK Model: Up to serial No. 600,350  
AEP Model: Up to serial No. 501,900



## 3-6. SCHEMATIC DIAGRAM — PREAMPLIFIER SECTION —

UK Model: Up to Serial No. 600,350  
 AEP Model: Up to Serial No. 501,900



- S1—FUNCTION (PHONO 1)
- S2—FUNCTION (PHONO 2)
- S3—MONITOR (SOURCE)
- S4—TAPE COPY (SOURCE)
- S5—EXT ADPT (SOURCE)
- S6—MUTING (OFF)
- S7—MODE (STEREO)
- S8—LOUDNESS (OFF)
- S9—TREBLE TURNOVER (2.5kHz)
- S10—TONE (CANCEL)
- S11—BASS TURNOVER (500Hz)
- S12—HIGH FILTER (OFF)
- S13—LOW FILTER (OFF)

■ B+ LINE

## Note:

All resistance values are in ohms. k = 1,000, M = 1,000 k

All capacitance values are in  $\mu\text{F}$  except as indicated with p, which means  $\mu\text{F}$ .

All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.

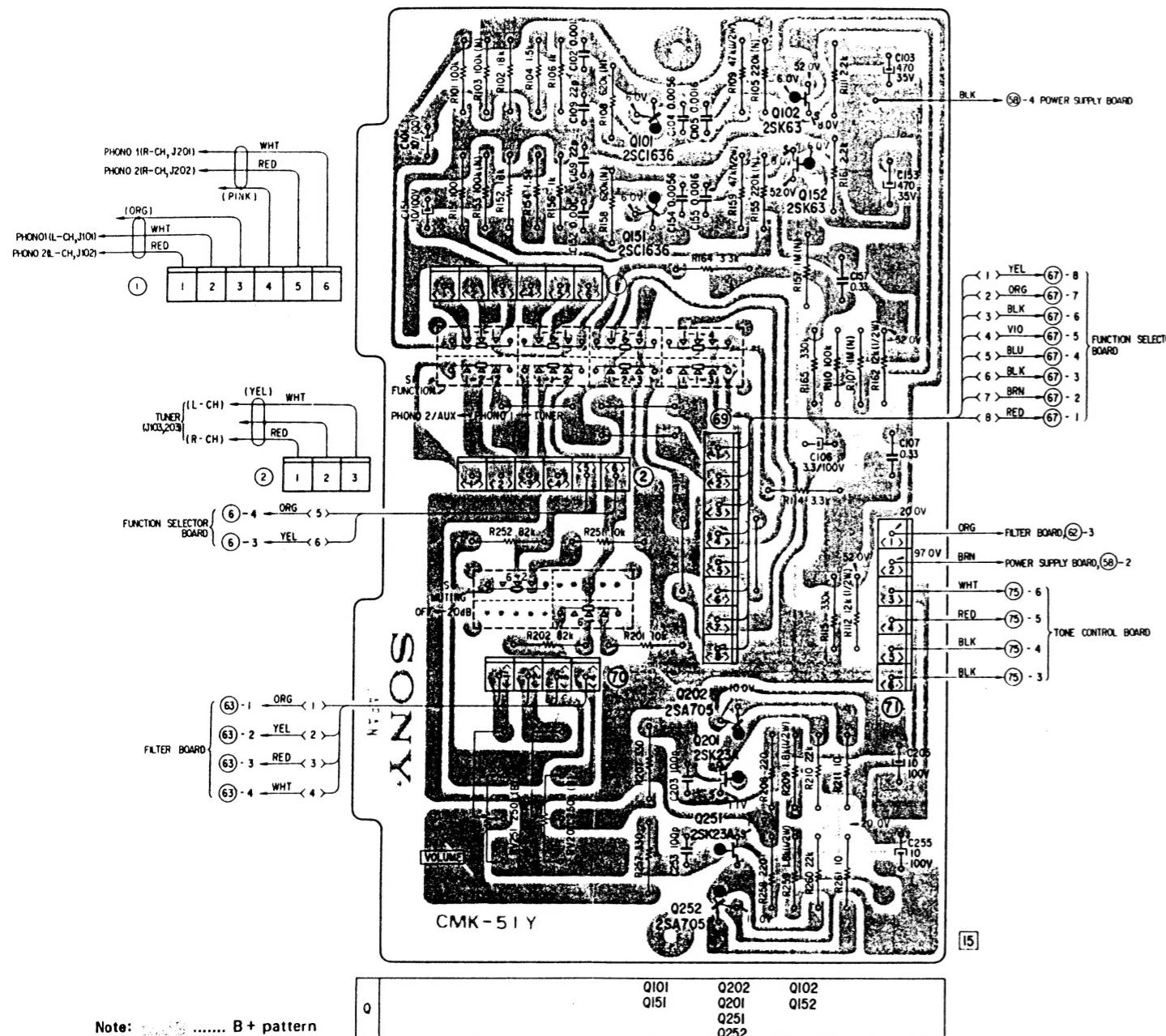
Voltage variations may be noted due to normal production tolerances.

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### 3-7. MOUNTING DIAGRAM – EQUALIZER AMPLIFIER BOARD –

**- Conductor Side -**

**USA Model:** Serial No. 800,001 and later  
**Canada Model:** Serial No. 700,001 and later  
**UK Model:** Serial No. 600,351 and later  
**AEP Model:** Serial No. 501,901 and later



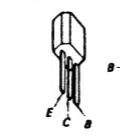
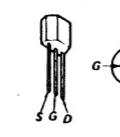
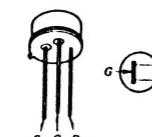
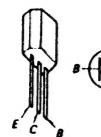
Note: ..... B + pattern

Q101, 151: 2SC1636

Q102, 152: 2SK63

Q201, 251: 2SK23A

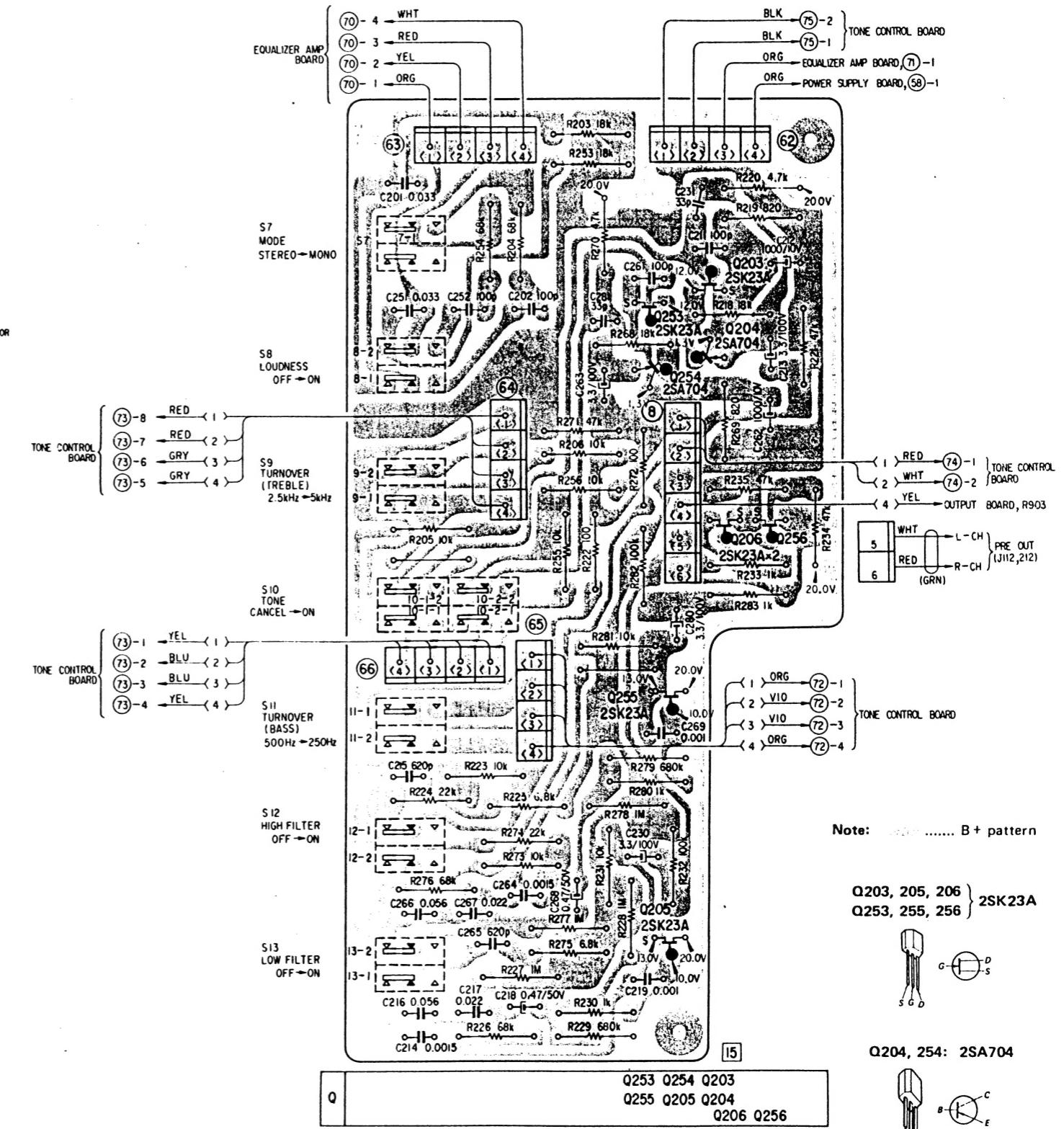
Q202, 252: 2SAT



### **3-8. MOUNTING DIAGRAM – FILTER BOARD –**

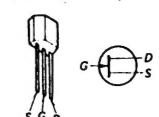
- Conductor Side -

**USA Model:** Serial No. 800,001 and later  
**Canada Model:** Serial No. 700,001 and later  
**UK Model:** Serial No. 600,351 and later  
**AEP Model:** Serial No. 501,901 and later

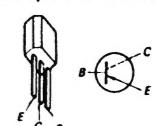


Note: ..... B + pattern

Q203, 205, 206 }  
Q253, 255, 256 } 2SK23A

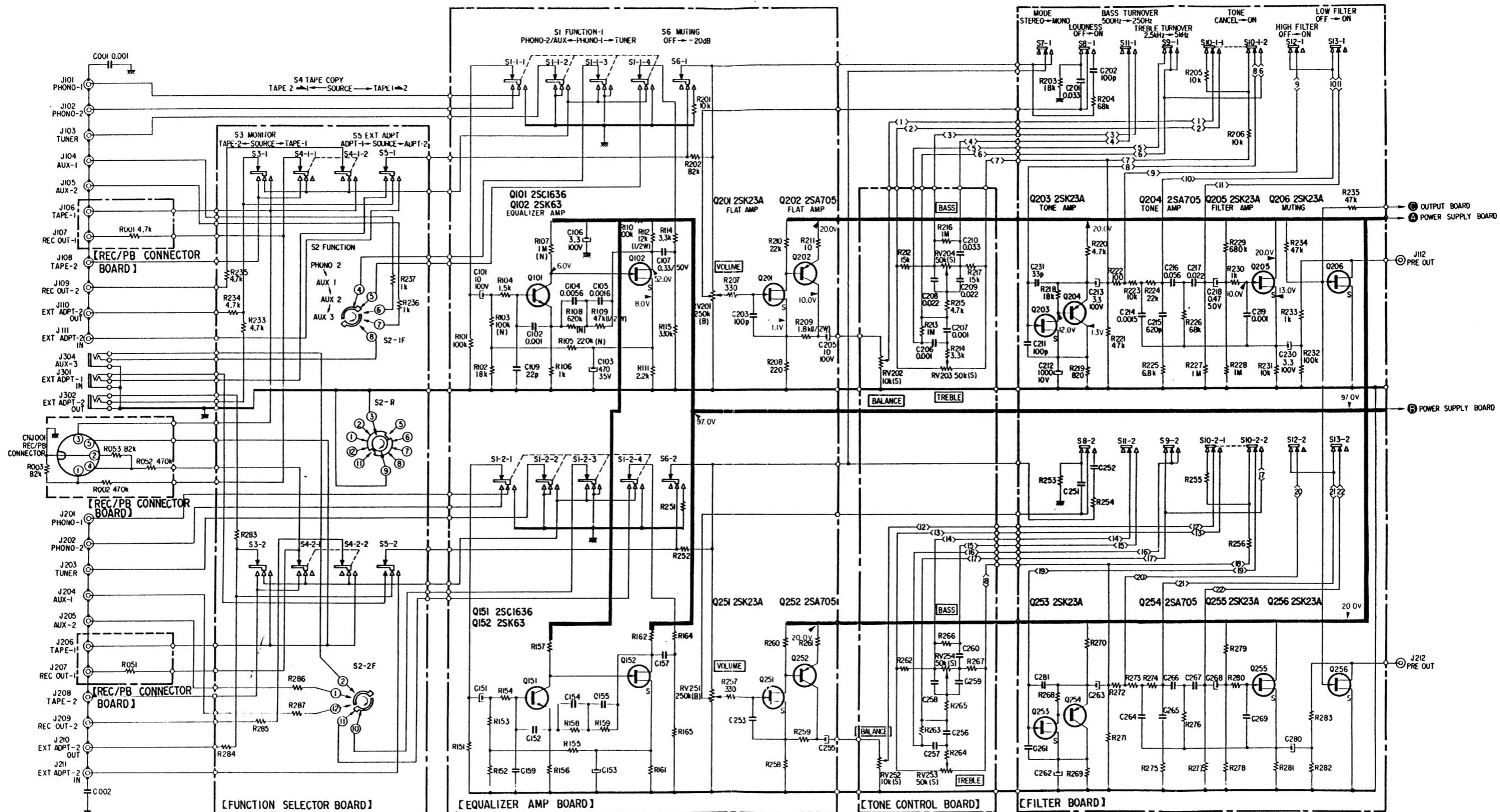


Q204, 254: 2SA704



USA Model: Serial No. 800,001 and later  
 Canada Model: Serial No. 700,001 and later  
 UK Model: Serial No. 600,351 and later  
 AEP Model: Serial No. 501,901 and later

**3-9. SCHEMATIC DIAGRAM – PREAMPLIFIER SECTION –**



- S1---FUNCTION (PHONO 1)
- S2---FUNCTION (PHONO 2)
- S3---MONITOR (SOURCE)
- S4---TAPE COPY (SOURCE)
- S5---EXT ADPT (SOURCE)
- S6---MUTING (OFF)
- S7---MODE (STEREO)
- S8---LOUDNESS (OFF)
- S9---TREBLE TURNOVER (2.5kHz)
- S10---TONE (CANCEL)
- S11---BASS TURNOVER (500Hz)
- S12---HIGH FILTER (OFF)
- S13---LOW FILTER (OFF)

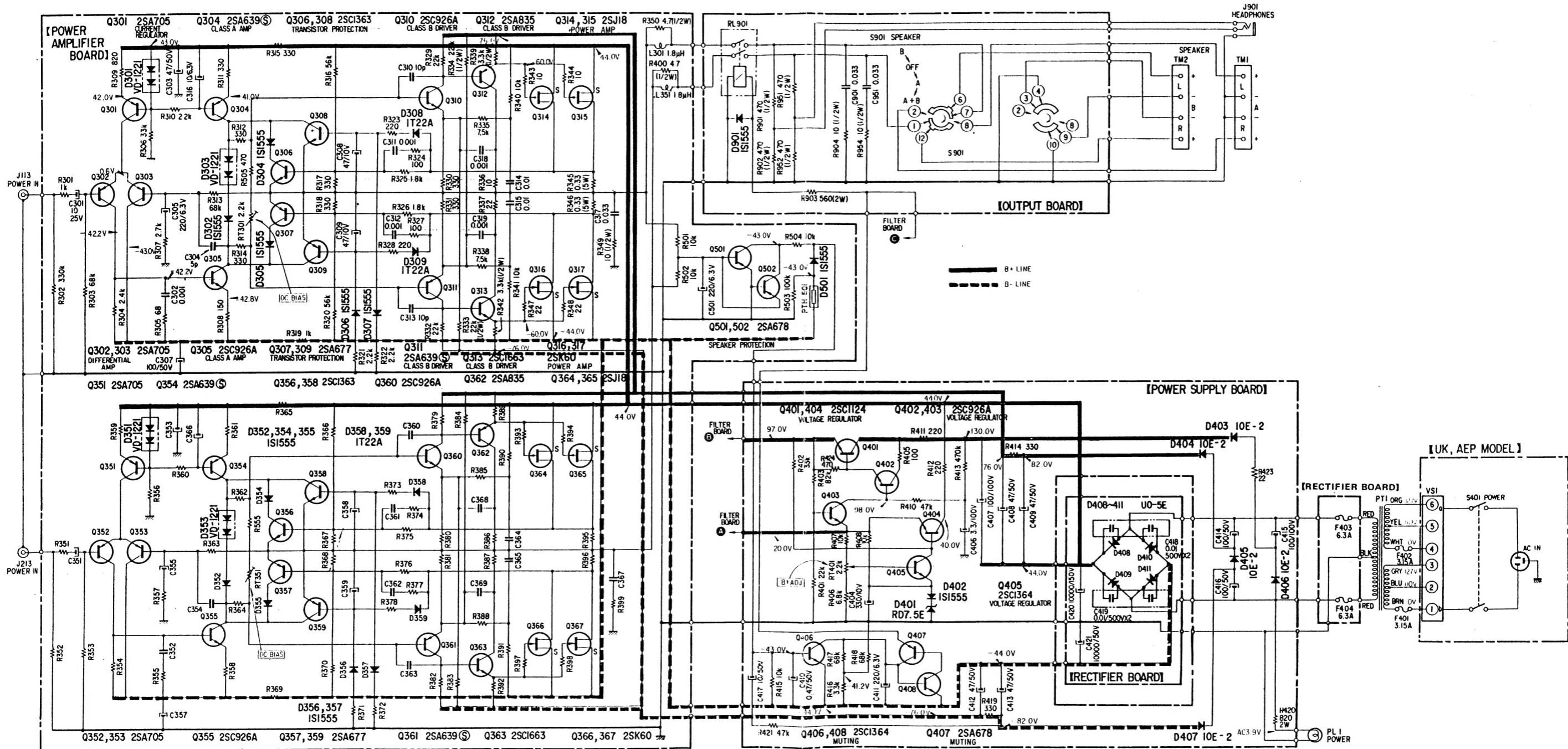
B+ LINE

**Note:**  
 All resistance values are in ohms. k = 1,000, M = 1,000 k  
 All capacitance values are in  $\mu\text{F}$  except as indicated with p, which means  $\mu\text{mF}$ .  
 All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.  
 Voltage variations may be noted due to normal production tolerances.

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## 3-10. SCHEMATIC DIAGRAM – POWER AMPLIFIER SECTION –

UK Model: Up to Serial No. 600,350  
AEP Model: Up to Serial No. 501,900



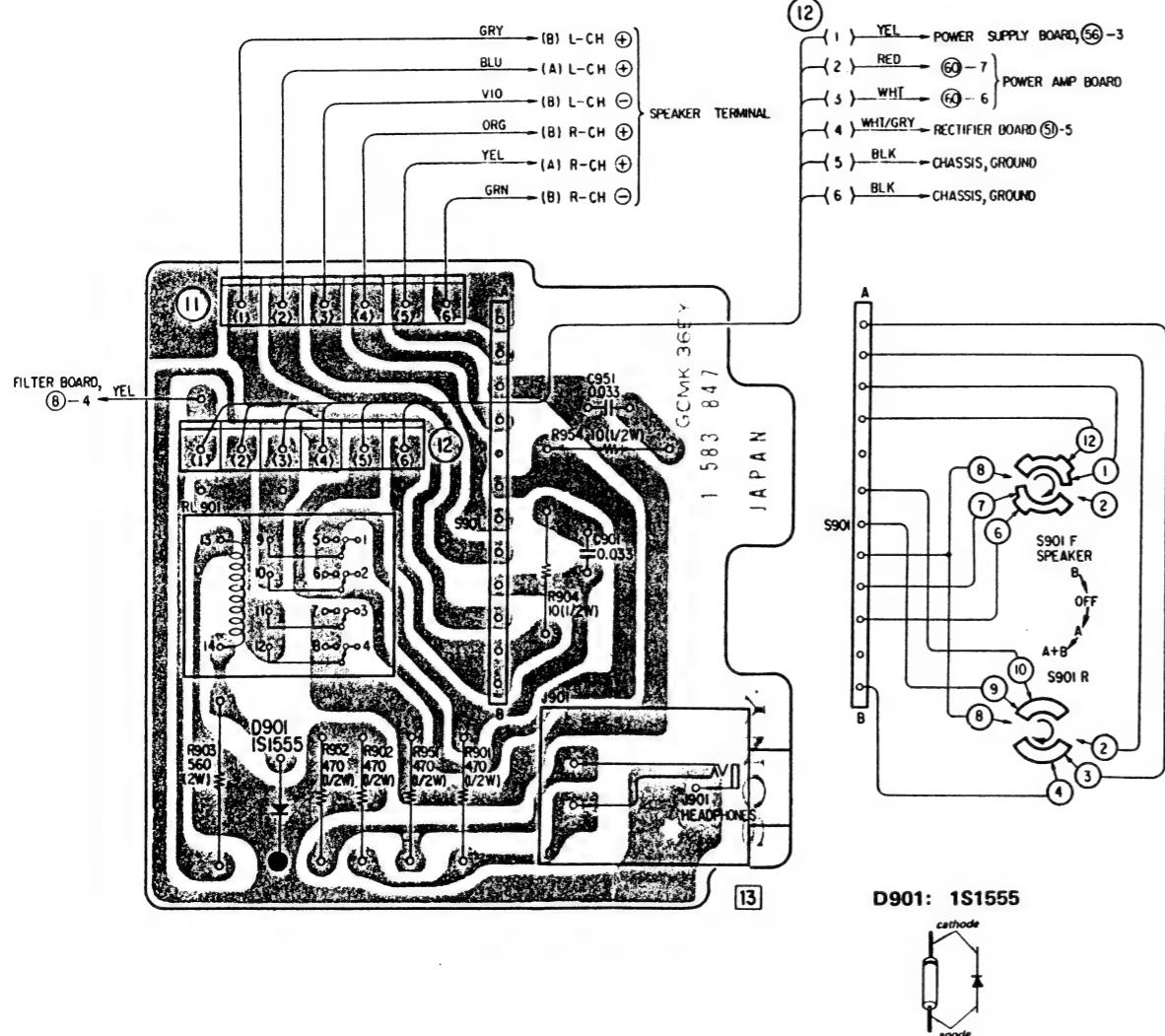
**Note:**  
 All resistance values are in ohms. k = 1,000, M = 1,000 k  
 All capacitance values are in  $\mu\text{F}$  except as indicated with p, which means  $\mu\mu\text{F}$ .  
 All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.  
 Voltage variations may be noted due to normal production tolerances.



# TA-5650 TA-5650

## 3-12. MOUNTING DIAGRAM – OUTPUT BOARD –

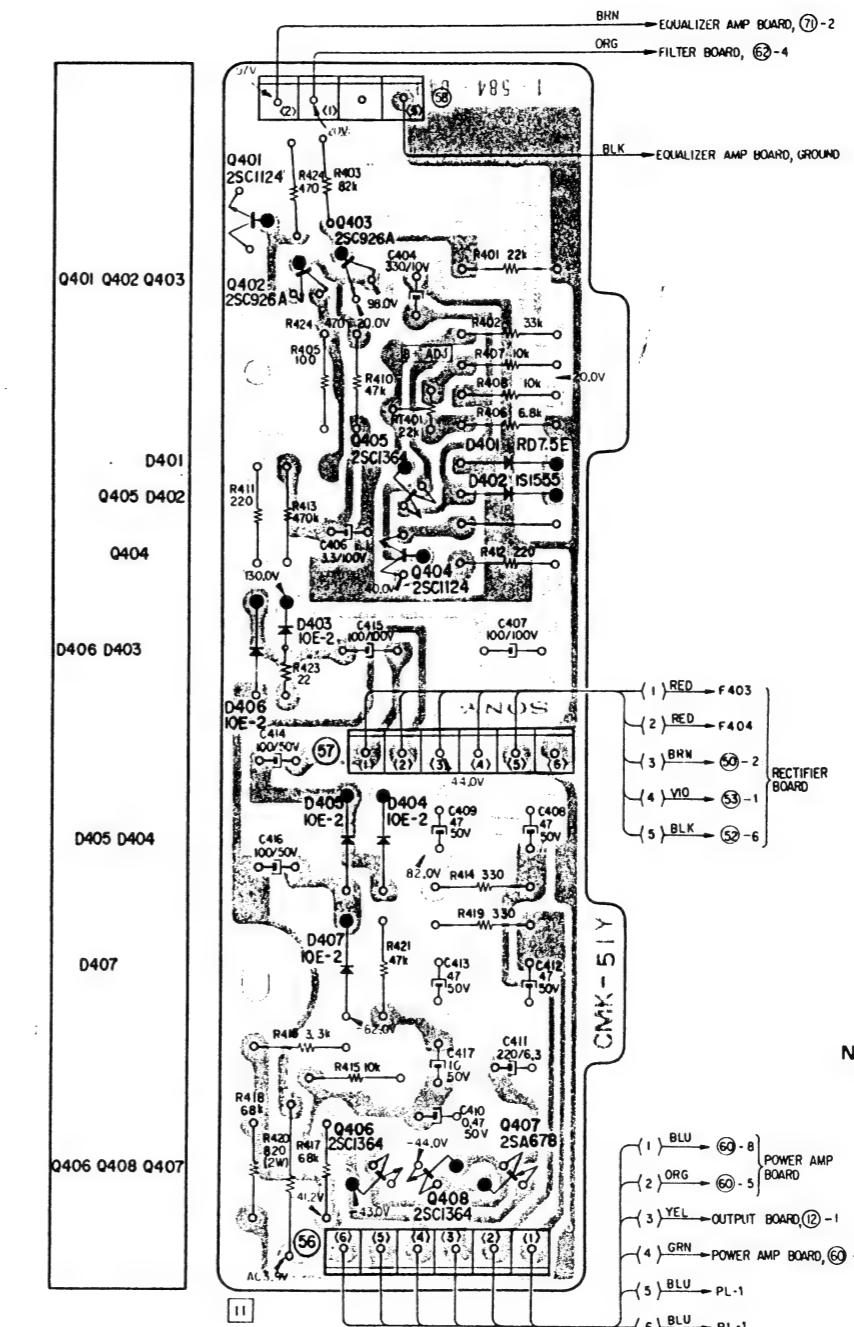
– Conductor Side –



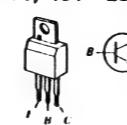
## 3-13. MOUNTING DIAGRAM – POWER SUPPLY BOARD –

– Conductor Side –

UK Model: Up to Serial No. 600,350  
AEP Model: Up to Serial No. 501,900



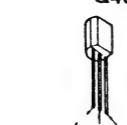
Q401, 404: 2SC1124



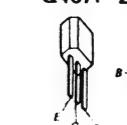
Q402, 403: 2SC926A



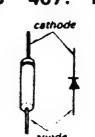
Q405, 406 { 2SC1364  
Q408 }



Q407: 2SA678

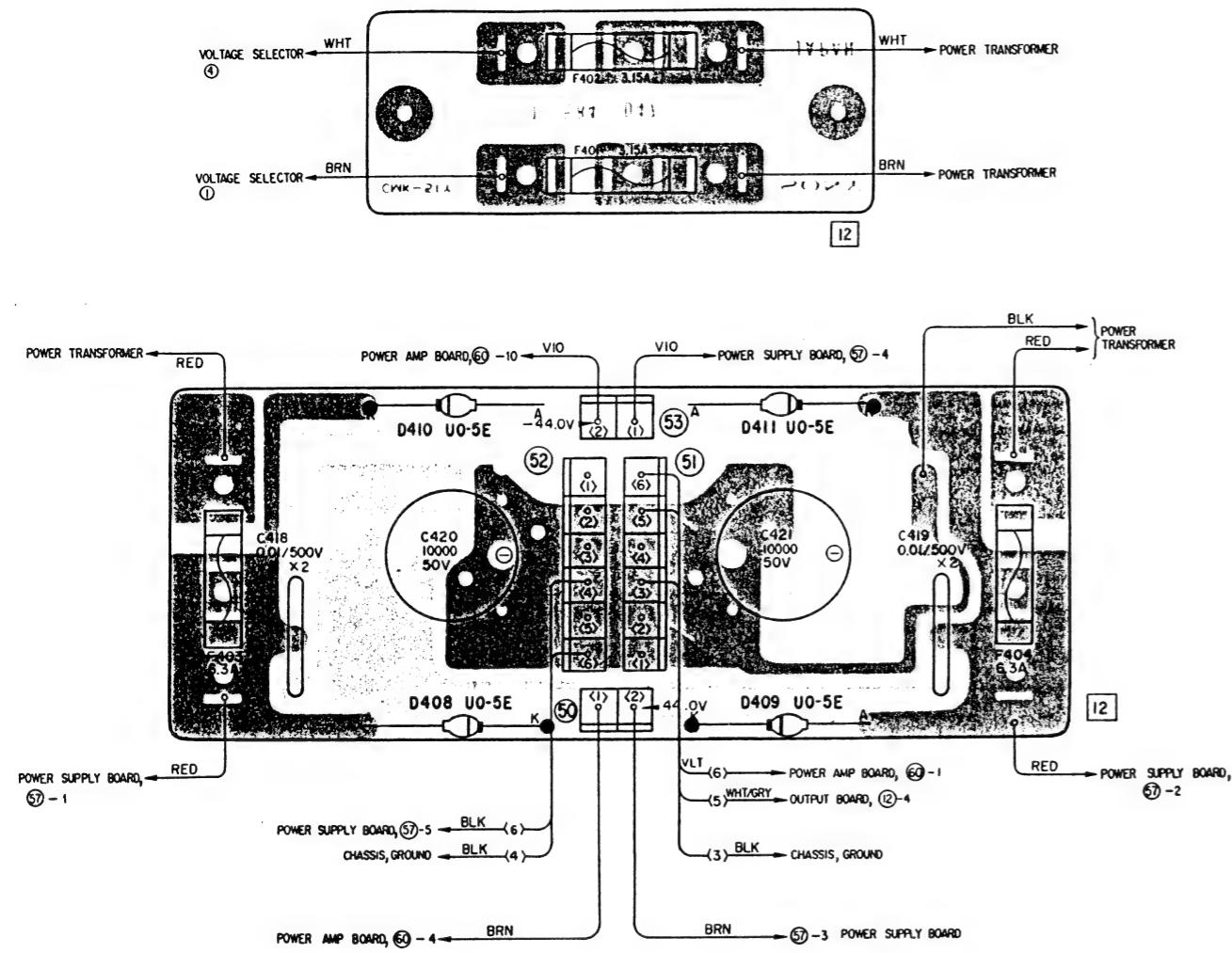


D401: RD-7.5E  
D402: 1S1555  
D403~407: 10E-2



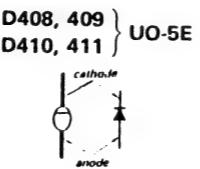
## 3-14. MOUNTING DIAGRAM - RECTIFIER/FUSE BOARDS -

- Component Side -



Note:

- ..... B+ pattern
- ..... B- pattern

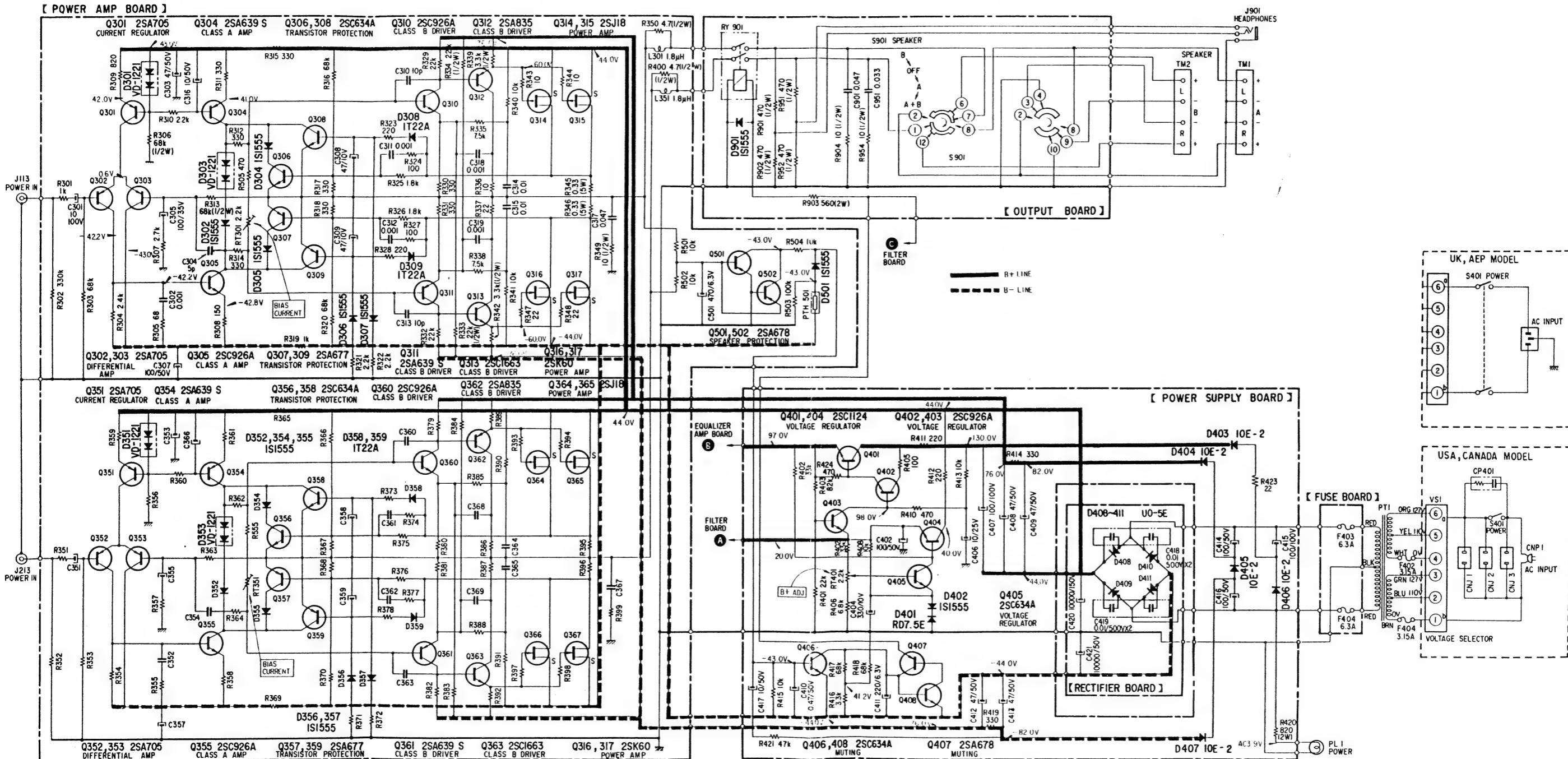


## MEMO

# TA-5650 TA-5650

## 3-15. SCHEMATIC DIAGRAM – POWER AMPLIFIER SECTION –

USA Model: Serial No. 800,001 and later  
 Canada Model: Serial No. 700,001 and later  
 UK Model: Serial No. 600,351 and later  
 AEP Model: Serial No. 501,901 and later



**Note:**

All resistance values are in ohms. k = 1,000, M = 1,000 k  
 All capacitance values are in  $\mu\text{F}$  except as indicated with p, which means  $\mu\mu\text{F}$ .

All voltages are dc measured with a VOM which has an input impedance of 20 k ohms/volt. No signal in.

Voltage variations may be noted due to normal production tolerances.

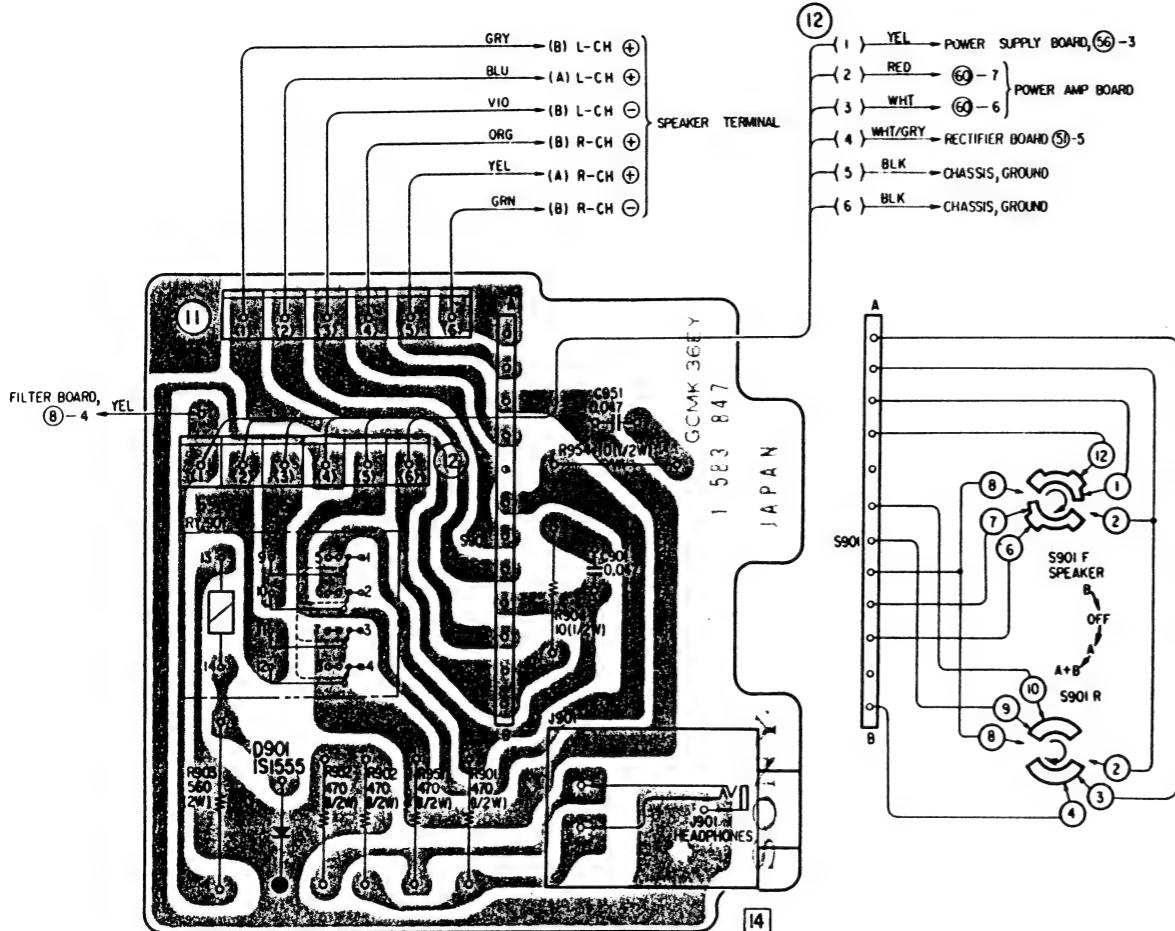


**TA-5650 TA-5650**

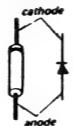
### **3-17. MOUNTING DIAGRAM – OUTPUT BOARD –**

**- Conductor Side -**

**USA Model:** Serial No. 800,001 and later  
**Canada Model:** Serial No. 700,001 and later  
**UK Model:** Serial No. 600,351 and later  
**AEP Model:** Serial No. 501,901 and later



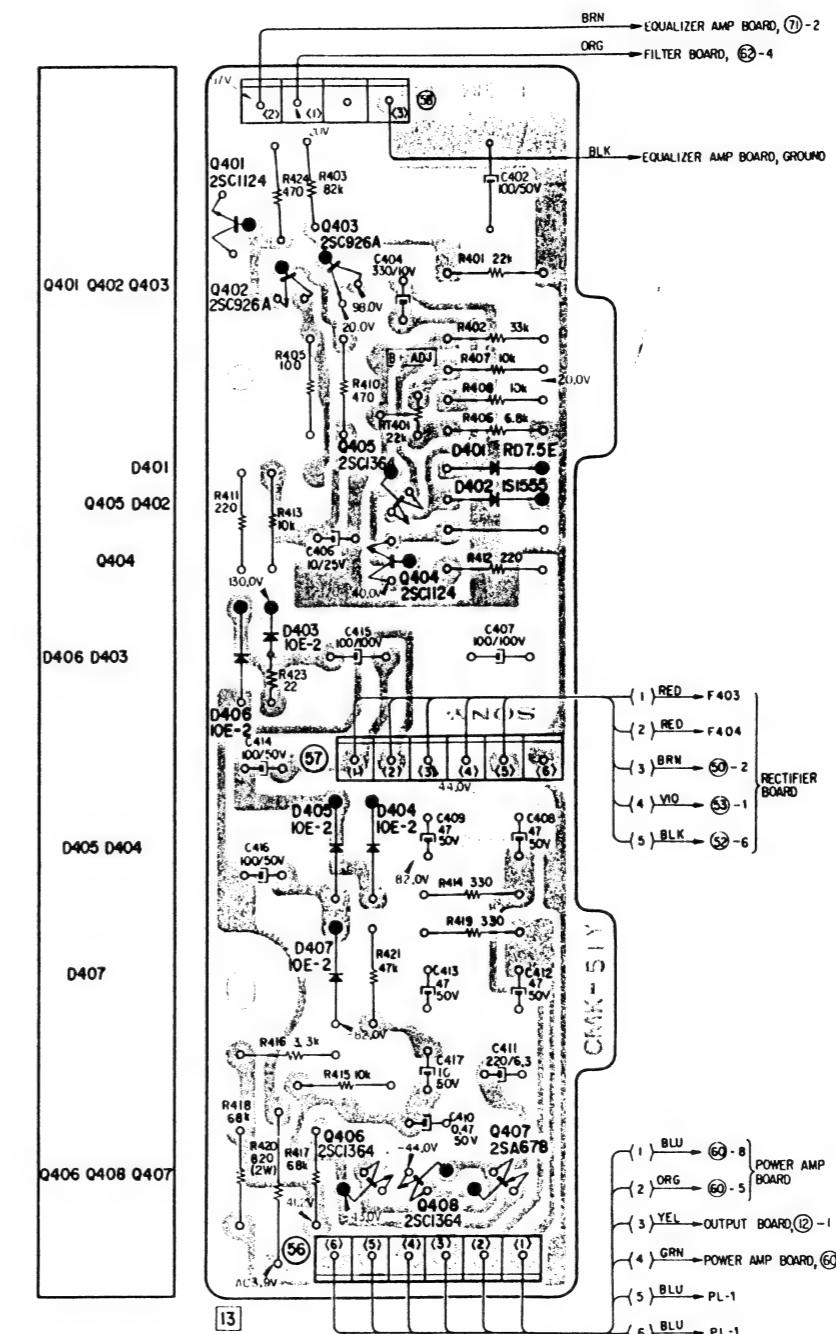
D901: 1S155



### 3-18. MOUNTING DIAGRAM – POWER SUPPLY BOARD –

– Conductor Side –

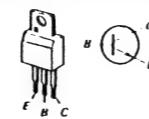
**USA Model:** Serial No. 800,001 and later  
**Canada Model:** Serial No. 700,001 and later  
**UK Model:** Serial No. 600,351 and later  
**AEP Model:** Serial No. 501,901 and later



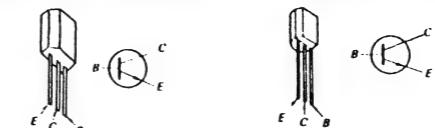
**Note:**

..... B + pattern  
..... B - pattern

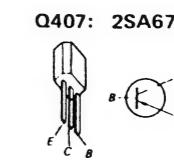
Q401 404: 2SC1124



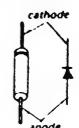
Q402 403: 2SC926A



Q405, 406 }  
Q408 } 2SC1364

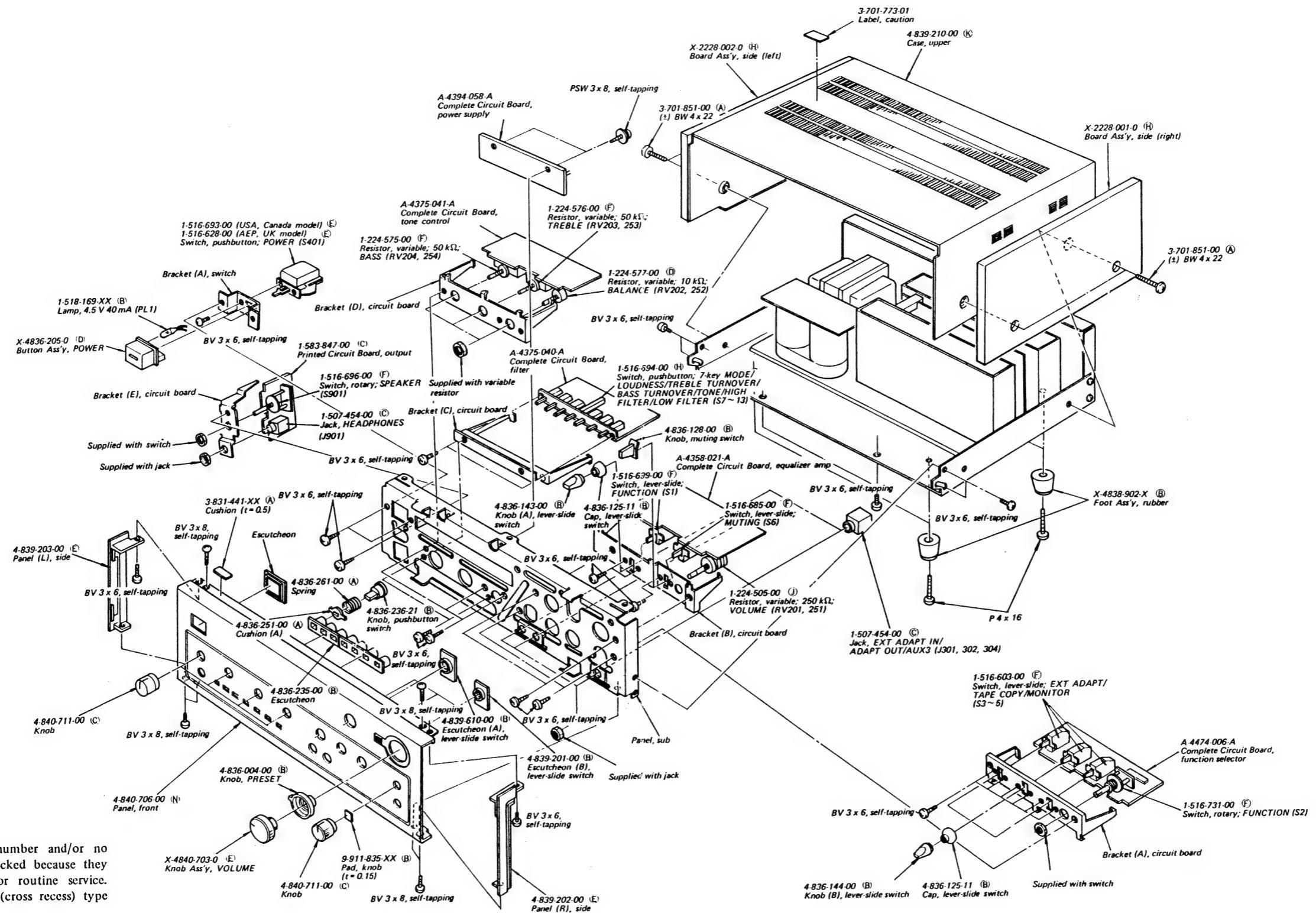


D401: RD-7.5E  
D402: 1S1555  
D403 ~ 407: 10E-2



**SECTION 4**  
**EXPLODED VIEWS**

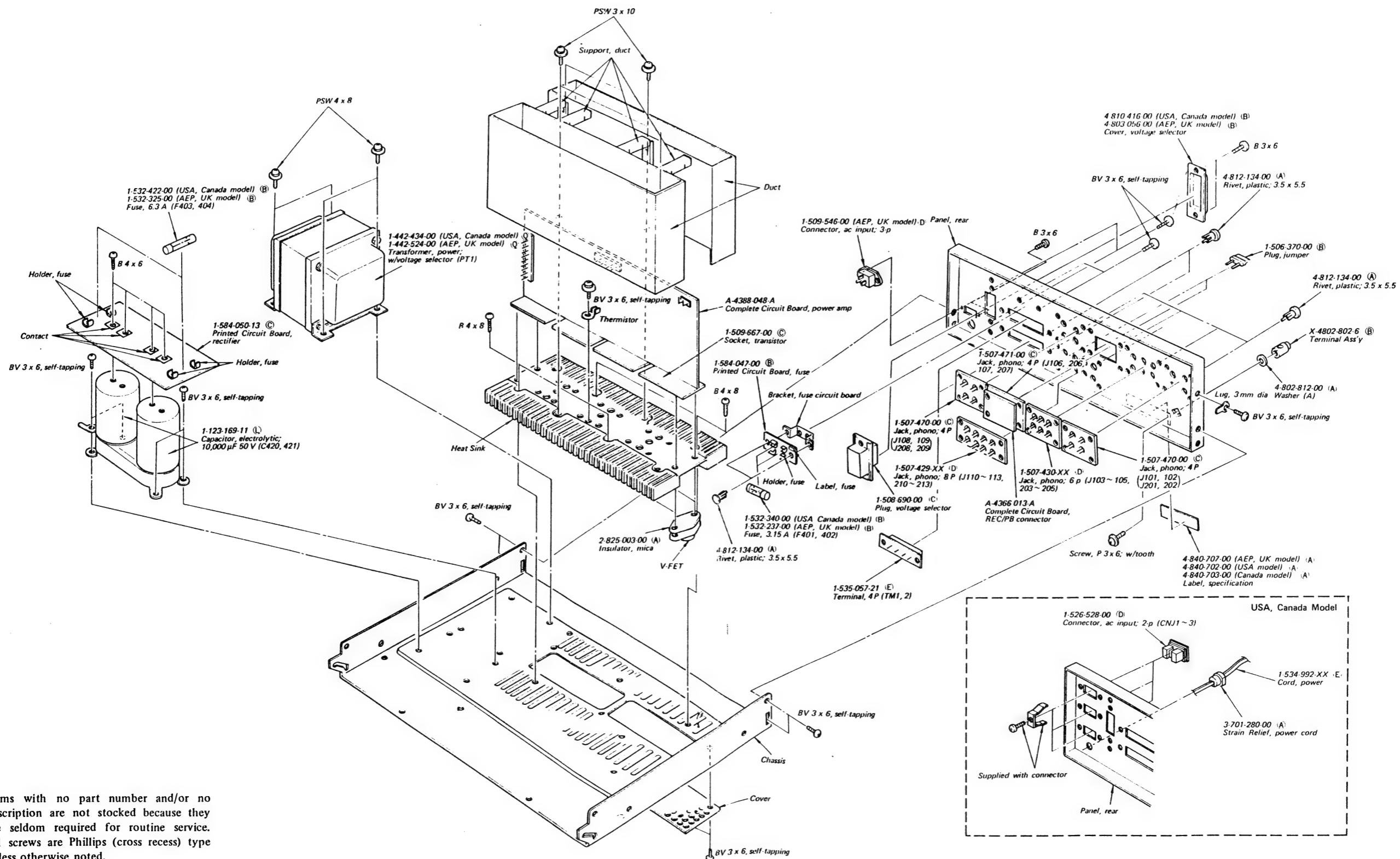
(1)

**Note:**

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
- All screws are Phillips (cross recess) type unless otherwise noted.  
(-) = slotted head
- The circled letters (Ⓐ to Ⓛ) are applicable for European model only.

**TA-5650 TA-5650**

(2)



### Note:

- Items with no part number and/or no description are not stocked because they are seldom required for routine service.
  - All screws are Phillips (cross recess) type unless otherwise noted.  
(-) = slotted head
  - The circled letters (Ⓐ to Ⓡ) are applicable for European model only.

## SECTION 5 ELECTRICAL PARTS LIST

Note: The circled letters (Ⓐ to Ⓛ) are applicable for European model only.

Mark	Applicable Serial No.
<input type="checkbox"/>	UK model: Up to Serial No. 600,350 AEP model: Up to Serial No. 501,900
<input checked="" type="checkbox"/>	USA model: Serial No. 800,001 and later Canada model: Serial No. 700,001 and later UK model: Serial No. 600,351 and later AEP model: Serial No. 501,901 and later

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
<b>COMPLETE CIRCUIT BOARDS</b>					
A-4358-021-A	Equalizer Amp		Q314,364		Ⓐ 2SJ18
A-4366-013-A	REC/PB Connector		Q315,365		
A-4375-040-A	Filter		Q316,366		Ⓑ 2SK60
A-4375-041A	TONE Control		Q317,367		
A-4388-048-A	Power Amp		Q401		Ⓒ 2SC1124
A-4394-058-A	Power Supply		Q402,403		Ⓓ 2SC926A
A-4474-006-A	Function Selector		Q404		Ⓒ 2SC1124
			Q405,406		Ⓑ 2SC1364
			Q407		Ⓒ 2SA678
			Q408		Ⓑ 2SC1364
<b>PRINTED CIRCUIT BOARDS</b>					
1-583-847-00	Ⓒ Output		Q501,502		Ⓒ 2SA678
1-584-047-00	Ⓑ Fuse			<b>Diodes</b>	
1-584-050-13	Ⓒ Rectifier		D301,351		Ⓑ VD1221
<b>SEMICONDUCTORS</b>			D302,352		Ⓑ 1S1555
<b>Transistors</b>			D303,353		Ⓑ VD1221
Q101,151	Ⓑ 2SC1636		D304~307		Ⓒ 1S1555
Q102,152	Ⓔ 2SK63		D354~357		
Q201,251	Ⓒ 2SK23A		D308,358		Ⓑ 1T22A
Q202,252	Ⓒ 2SA705		D309,359		
Q203,253	Ⓒ 2SK23A		D401		Ⓑ RD7.5E
Q204,254	Ⓒ 2SA705		D402		Ⓑ 1S1555
Q205,255	Ⓒ 2SK23A		D403~407		Ⓑ 10E-2
Q206,256			D408~411		Ⓒ U05E
Q301~303	Ⓒ 2SA705		D501,901		Ⓑ 1S1555
Q351~353			PTH501	1-800-340-21	Ⓑ Thermistor (positive)
Q304,354	Ⓒ 2SA639S		<b>COIL</b>		
Q305,355	Ⓓ 2SC926A		L301,351	1-407-592-00	Ⓐ Microinductor 1.8μH
Q306,356	Ⓑ 2SC1364		<b>TRANSFORMER</b>		
Q307,357	Ⓒ 2SA677		PT1	1-442-434-00	Ⓒ Power (USA, Canada model)
Q308,358	Ⓑ 2SC1364		PT1	1-442-524-00	Ⓒ Power (AEP, UK model)
Q309,359	Ⓒ 2SA677				
Q310,360	Ⓓ 2SC926A				
Q311,361	Ⓒ 2SA639S				
Q312,362	Ⓔ 2SA835				
Q313,363	Ⓓ 2SC1663				

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<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
<b>CAPACITORS</b>		
All capacitors are in $\mu\text{F}$ and electrolytic type unless otherwise indicated. 50 or less working volts are omitted except for electrolytic type. (p = $\mu\mu\text{F}$ )		
C001,002	1-102-074-11	(Ⓐ) 0.001 ceramic
C101,151	□ 1-121-748-11 ■ 1-121-126-11	(Ⓐ) 10 25V (Ⓐ) 10 100V
C102,152	1-108-227-12	(Ⓐ) 0.001 mylar
C103,153	□ 1-121-659-11 ■ 1-121-361-11	(Ⓑ) 2200 10V (Ⓑ) 470 35V
C104,154	1-103-743-11	(Ⓑ) 0.0056 polystyrol
C105,155	1-103-730-11	(Ⓐ) 0.0016 polystyrol
C106	1-121-995-11	(Ⓑ) 3.3 100V
C107,157	□ 1-105-729-12 ■ 1-108-822-12	(Ⓐ) 0.22 100V mylar (Ⓐ) 0.33 50V mylar
C109,159	1-102-967-11	(Ⓐ) 22p ceramic
C201,251	1-108-591-12	(Ⓐ) 0.033 mylar
C202,252	1-102-973-11	(Ⓐ) 100p ceramic
C203,253	□ 1-123-051-11 ■ 1-121-126-11	(Ⓐ) 10 50V (Ⓐ) 10 100V
C206,256	1-108-555-12	(Ⓐ) 0.001 mylar
C207,257	1-108-587-12	(Ⓐ) 0.022 mylar
C208,258	1-108-591-12	(Ⓐ) 0.033 mylar
C211,261	1-102-973-11	(Ⓐ) 100p ceramic
C212,262	1-121-736-11	(Ⓑ) 1000 10V
C213,263	□ 1-121-914-11 ■ 1-121-995-11	(Ⓑ) 3.3 50V (Ⓑ) 3.3 100V
C214,264	1-108-559-12	(Ⓐ) 0.0015 mylar
C215,265	1-103-720-11	(Ⓐ) 620p polystyrol
C216,266	1-108-597-12	(Ⓐ) 0.056 mylar
C217,267	1-108-587-12	(Ⓐ) 0.022 mylar
C218,268	1-121-911-11	(Ⓐ) 0.47 50V
C219,269	1-108-227-12	(Ⓐ) 0.001 mylar
C230,280	□ 1-121-914-11 ■ 1-121-995-11	(Ⓑ) 3.3 50V (Ⓑ) 3.3 100V
C231,281	■ 1-102-963-11	(Ⓐ) 33p ceramic

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
C301,351	□ 1-121-748-11 ■ 1-121-126-11	(Ⓐ) 10 25V (Ⓐ) 10 100V
C302,352	1-108-227-12	(Ⓐ) 0.001 mylar
C303,353	1-123-058-11	(Ⓐ) 47 50V
C304,354	1-102-807-11	(Ⓐ) 5p ceramic
C305,355	□ 1-121-419-11 ■ 1-121-357-11	(Ⓑ) 220 6.3V (Ⓑ) 100 35V
C307,357	1-123-059-11	(Ⓑ) 100 50V
C308,358	1-121-927-11	(Ⓑ) 47 10V
C309,359	1-102-947-11	(Ⓐ) 10p ceramic
C311,361	1-108-227-12	(Ⓐ) 0.001 mylar
C312,362	1-102-947-11	(Ⓐ) 10p ceramic
C313,363	1-108-239-12	(Ⓐ) 0.01 mylar
C314,364	1-121-469-11	(Ⓐ) 10 6.3V
C316,366	■ 1-121-738-11	(Ⓐ) 10 50V
C317,367	□ 1-108-244-12 ■ 1-108-868-12	(Ⓐ) 0.033 mylar (Ⓐ) 0.047 mylar
C318,368	1-108-227-12	(Ⓐ) 0.001 mylar
C319,369	1-123-058-11	(Ⓑ) 47 50V
C402	■ 1-121-417-11	(Ⓑ) 100 50V
C404	1-121-805-11	(Ⓑ) 330 10V
C406	□ 1-121-995-11 ■ 1-121-398-11	(Ⓐ) 3.3 100V (Ⓐ) 10 25V
C407	1-123-084-11	(Ⓒ) 100 100V
C408,409	1-123-058-11	(Ⓑ) 47 50V
C410	1-121-726-11	(Ⓐ) 0.47 50V
C411	1-121-419-11	(Ⓐ) 220 6.3V
C412,413	1-123-058-11	(Ⓑ) 47 50V
C414	1-123-059-11	(Ⓑ) 100 50V
C415	1-123-084-11	(Ⓒ) 100 100V
C416	1-123-059-11	(Ⓑ) 100 50V
C417	1-121-738-11	(Ⓐ) 10 50V
C418,419	1-102-355-11	(Ⓐ) 0.01 500V ceramic
C420,421	1-123-169-11	(Ⓛ) 10000 50V
C501	□ 1-121-419-11 ■ 1-123-077-11	(Ⓑ) 220 6.3V (Ⓑ) 470 6.3V
C901,951	□ 1-108-244-12 ■ 1-108-868-12	(Ⓐ) 0.033 mylar (Ⓐ) 0.047 mylar

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<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>					
<b>RESISTORS</b>										
<p>All resistors are in ohms. Regular type ±5%, 1/4W carbon and composition resistors are omitted.</p> <p>Check the schematic diagram for the resistance values. (k = 1000, M = 1000 k)</p>										
R109,159	■ 1-244-913-11	Ⓐ 47 k	½W	carbon	S7~13	1-516-694-00	Ⓑ Push, 7-key; MODE, LOUDNESS, TREBLE TURNOVER, BASS TURNOVER, TONE, HIGH FILTER, LOW FILTER			
R112,162	■ 1-244-899-11	Ⓐ 12 k	½W	carbon	S401	1-516-628-00 1-516-693-00	Ⓔ Pushbutton, POWER (AEP, UK model) Ⓔ Pushbutton, POWER (USA, Canada model)			
R209,259	■ 1-244-879-11	Ⓐ 1.8 k	½W	carbon	S901	1-516-696-00	Ⓕ Rotary, SPEAKER			
R306,356	■ 1-244-917-11	Ⓐ 68 k	½W	carbon	<b>JACKS</b>					
R313,363	■ 1-244-917-11	Ⓐ 68 k	½W	carbon	CNJ001	1-509-549-00	Ⓑ Connector, REC/PB			
R333,383	1-244-905-11	Ⓐ 22 k	½W	carbon	CNJ1~3	1-526-528-00	Ⓓ Connector, ac; 2-p (USA, Canada model)			
R334,384						1-509-546-00	Ⓓ Connector, ac; 3-p (AEP, UK model)			
R339,389	1-211-650-11	Ⓐ 3.3 k	½W	carbon	J101,201	1-507-470-00	Ⓒ Phono, 4-p; PHONO 1, 2			
R342,392					J102,202	1-507-470-00	Ⓒ Phono, 4-p; PHONO 1, 2			
R345,395	1-217-157-11	Ⓐ 0.33	5W	wire-wound	J103~105	1-507-430-XX	Ⓓ Phono, 6-p; TUNER, AUX 1, 2			
R346,396					J203~205	1-507-471-00	Ⓒ Phono, 4-p; TAPE 1, REC OUT 1			
R349,399	1-211-590-11	Ⓐ 10	½W	carbon	J106,206	1-507-470-00	Ⓒ Phono, 4-p; TAPE 2, REC OUT 2			
R350,450	1-244-817-11	Ⓐ 4.7	½W	carbon	J107,207	1-507-429-XX	Ⓓ Phono, 8-p; EXT ADPT 2, PRE OUT, POWER IN			
R420	1-206-662-11	Ⓐ 820	2W	metal oxide	J108,208	1-507-454-00	Ⓒ EXT ADAPT IN, ADAPT OUT, AUX 3			
R901,951	1-244-865-11	Ⓐ 470	½W	carbon	J109,209	1-507-454-00	Ⓒ HEADPHONES			
R902,952					J110~113	1-507-429-XX	Ⓓ HEADPHONES			
R903	1-206-658-11	Ⓐ 560	2W	metal oxide	J210~213	1-518-169-XX	Ⓑ Lamp, 4.5V 40 mA			
R904,905	1-211-590-11	Ⓐ 10	½W	carbon	PL1	1-515-257-00	Ⓗ Relay			
RT301,351	1-224-489-00	Ⓑ 2.2 k		adjustable	<b>MISCELLANEOUS</b>					
RT401	1-224-250-XX	Ⓒ 2.2 k		adjustable	CP401	1-231-057-31	Ⓑ Encapsulated Component (USA, Canada model)			
RV201,251	1-224-505-00	Ⓓ 250 k		variable; VOLUME	F401,402	1-532-340-00	Ⓑ Fuse, 3.15A (USA, Canada model)			
RV202,252	1-224-577-00	Ⓓ 10 k		variable; BALANCE		1-532-237-00	Ⓑ Fuse, 3.15A (AEP, UK model)			
RV203,253	1-224-576-00	Ⓔ 50 k		variable; TREBLE	F403,404	1-532-325-00	Ⓑ Fuse, 6.3A (AEP, UK model)			
RV204,254	1-224-575-00	Ⓔ 50 k		variable; BASS		1-532-422-00	Ⓑ Fuse, 6.3A (USA, Canada model)			
<b>SWITCHES</b>										
S1	1-516-699-00	Ⓕ Lever-slide, FUNCTION								
S2	1-516-731-00	Ⓕ Rotary, FUNCTION								
S3~5	1-516-603-00	Ⓕ Lever-slide, EXT ADAPT, TAPE COPY, MONITOR								
S6	1-516-685-00	Ⓕ Lever-slide, MUTING								

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<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
TM1,2	1-535-057-21	Ⓐ Terminal, 4-p			
	1-506-370-00	Ⓑ Plug, jumper			
	1-508-690-00	Ⓒ Plug, voltage selector			
	1-509-667-00	Ⓓ Socket, transistor			
	1-534-992-XX	Ⓔ Cord, power (USA, Canada model)			
					<b>ACCESSORIES</b>
			1-506-113-00	Ⓐ	Plug, short
			1-534-819-11	Ⓔ	Cord, power (UK model)
			1-534-754-12	Ⓔ	Cord, power (E model)
			3-780-566-11	Ⓕ	Manual, instruction (Canada, UK and AEP model)
			3-780-566-21	Ⓔ	Manual, instruction (USA model)
			3-793-520-82	Ⓐ	Card, guaranty (UK model)

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9-958-082-02

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Printed in Japan